

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A broadcast system, comprising:

a transmission device including

a ~~multiplex-portion~~ multiplexer that multiplexes main contents data and sub contents data so as to generate a transport stream, and

a ~~transmission-portion~~ transmitter that transmits the transport stream generated by the ~~multiplex-portion~~ multiplexer,

the ~~multiplex-portion~~ multiplexer generating the sub contents data, the sub contents data including an output form ID that indicates an output form of sub contents data, and output contents data that indicate output contents; and

a reception device including

a ~~reception-portion~~ receiver that receives the transport stream transmitted by the transmission device,

a memory that stores a reference table which associates at least one output form ID with at least one output form; and

a ~~reconstruction-portion~~ reconstructor that controls reconstruction of main contents data and sub contents data in accordance with the received transport stream,

~~the reconstruction portion~~ reconstructor ~~determining an output form of the sub contents data in accordance with an output form that is predetermined for the output form ID in the received sub contents data, and determining the output contents of the sub contents data in accordance with the output contents data in the received sub contents data, so as to perform reconstruction control of the sub contents data~~
extracting the output form ID from sub contents data, determining an output form corresponding to the output form ID based on the reference table, and controlling reconstruction,

wherein controlling reconstruction comprises:

reconstructing the sub contents data and storing the main contents data in a memory, when the determined output form is a form for switching from display of main contents data to display of sub contents data; and

reconstructing main contents data stored in a memory, when the determined output form is a form for switching from display of sub contents data to display of main contents data.

2. (Currently Amended) A transmission device, comprising:

a ~~multiplex portion~~ multiplexer that multiplexes main contents data and sub contents data so as to generate a transport stream; and

a ~~transmission portion~~ transmitter that transmits the transport stream generated by the ~~multiplex portion~~ multiplexer;

~~the multiplex-portion~~ multiplexer generating the sub contents data, the sub contents data including an output form ID that indicates an output form of the sub contents data, and output contents data that indicate output contents, wherein the output form instructs a reception device to switch from display of main contents data to display of sub contents data or switch from display of sub contents data to display of main contents data.

3. (Currently Amended) A reception device₁ comprising:

a ~~reception-portion~~ receiver that receives a transport stream transmitted by a transmission device; and

a ~~reconstruction-portion~~ reconstructor that controls reconstruction of main contents data and sub contents data in accordance with the received transport stream;

~~the reconstruction-portion~~ reconstructor ~~determining an output form of the sub contents data in accordance with an output form that is predetermined for the output form ID in the received sub contents data, and determining the output contents of the sub contents data in accordance with the output contents data in the received sub contents data, so as to perform reconstruction control of the sub contents data~~ determining an output form of the sub contents data according to an output form ID in the sub contents data, and controlling reconstruction,

wherein controlling reconstruction comprises:

reconstructing sub contents data and storing main contents data in a memory,
when the determined output form is a form for switching from display of main contents data to display of sub contents data; and

reconstructing main contents data stored in a memory, when the determined output form is a form for switching from display of sub contents data to display of main contents data.

4. (Currently Amended) The ~~broadcast system~~ reception device according to claim ~~[[1]]~~ 3, wherein an output form table describing the output form ID and the output form corresponding thereto is recorded in the reception device.

5. (Currently Amended) The ~~system~~ transmission device according to claim ~~[[1]]~~ 2, wherein the output form includes a display position of the sub contents data.

6. (Currently Amended) The ~~system~~ transmission device according to claim ~~[[1]]~~ 2, wherein the output form includes information indicating whether the sub contents data are outputted.

7. (Currently Amended) The ~~system~~ transmission device according to claim ~~[[1]]~~ 2, wherein the output form includes an output time of the sub contents data.

8. (Currently Amended) The ~~system~~ transmission device according to claim ~~[[1]]~~ 2, wherein the output form includes an output condition of the sub contents data.

9. (Currently Amended) The ~~system~~ reception device according to claim ~~[[1]]~~ 3, wherein the reception device determines the output form of the sub contents data in

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accordance with a predetermined output form when the received output form ID is not a predetermined one.

10-11. (Canceled)

12. (Currently Amended) Contents data in which main contents data and sub contents data are multiplexed, wherein the sub contents data include an output form ID that indicates corresponding to an output form of the sub contents data and output contents data that indicate output contents, wherein the output form instructs a receiving device to switch from display of main contents data to display of sub contents data or switch from display of sub contents data to display of main contents data.

13. (Currently Amended) A computer readable medium that stores a reconstruction program for receiving and controlling reconstruction of multiplexed main contents data and sub contents data, the reconstruction program comprising instructions for:

~~determining an output form of sub contents data in accordance with a predetermined output form corresponding to an output form ID included in the sub contents data, and in accordance with output contents data included in the sub contents data, so as to perform reconstruction control of the sub contents data~~

extracting an output form ID from the received sub contents data;

determining an output form corresponding to the output form ID based on a reference table stored in a memory; and

controlling reconstruction, comprising:

reconstructing the received sub contents data and storing the received main contents data in a memory, when the determined output form is a form for switching from display of main contents data to display of sub contents data; and

reconstructing main contents data stored in a memory, when the determined output form is a form for switching from display of sub contents data to display of main contents data.

14. (Canceled)

15. (Currently Amended) A broadcasting method in a broadcast system including a transmission device and a reception device, the method comprising:

generating, in the transmission device, sub contents data, including an output form ID that ~~indicates an output form of sub contents~~ corresponding to an output form that instructs the reception device to switch from display of main contents data to display of sub contents data, or to switch from display of sub contents data to display of main contents data, and output contents data that indicates output contents,

generating a transport stream by multiplexing main contents data and the sub contents data,

transmitting, by the transmission device, the generated transport stream,

receiving, in the reception device, the ~~transmitted~~ transport stream transmitted by the transmission device,

acquiring an output form from the received sub contents data;

determining the output form of the sub contents data ~~in accordance with the output form that is predetermined for~~ corresponding to the output form ID in the received sub contents data,

~~determining the output contents of the sub contents data in accordance with the output contents data in the received sub contents data, so as to perform the reconstruction control of the sub contents data, and~~

controlling reconstruction of the main contents data ~~in accordance with the received transport stream, wherein controlling reconstruction comprises~~

reconstructing sub contents data and storing main contents data in a memory, when the determined output form is a form for switching from display of main contents data to display of sub contents data; and

reconstructing main contents data stored in a memory, when the determined output form is a form for switching from display of sub contents data to display of main contents data.

16. (Currently Amended) A method for generating a transport stream, the method comprising:

generating sub contents data, including an output form ID that indicates an output form of the sub contents data and output contents data that indicate output contents, wherein the output form instructs a receiving device to switch from display of main contents data to display of sub contents data or switch from display of sub contents data to display of main contents data; and

generating a transport stream by multiplexing at least main contents data and the sub contents data.

17. (Currently Amended) A method for reconstructing a transport stream, the method comprising:

receiving a transport stream transmitted by a transmission device;

extracting sub contents data from the transport stream;

acquiring and output form from the received sub contents data;

determining an the output form of sub contents data in accordance with an output form that is predetermined for corresponding to an output form ID in received the sub contents data based on a reference table stored in a memory, and

~~determining output contents of the sub contents data in accordance with output contents data in the received sub contents data, so as to control the reconstruction of the sub contents data~~ controlling reconstruction,

wherein controlling reconstruction comprises

reconstructing sub contents data and storing main contents data in a memory, when the determined output form is a form for switching from display of main contents data to display of sub contents data; and

reconstructing main contents data stored in a memory, when the determined output form is a form for switching from display of sub contents data to display of main contents data.

18. (Currently Amended) The system according to claim 1, wherein the sub contents data includes one of an output form ID and a script, the ~~reconstruction portion~~ reconstructor determines whether the received sub contents data includes an output form ID which corresponds to an output form ID stored in a reference table of the reception device, if the sub contents data includes an output form ID that corresponds to an output form ID stored in the reference table, the reception device presents the output contents in an output form corresponding to the stored output form ID, and if the sub contents data does not include an output form ID that corresponds to an output form ID stored in the reference table, the reception device presents the output contents based upon a script included in the sub contents data.

19. (Currently Amended) The transmission device according to claim 2, wherein the ~~multiplex portion~~ multiplexer is configured to generate sub contents data that includes an output form ID and sub contents data that includes a script and that the sub contents data includes one of an output form ID and a script, the script providing instructions for presenting the output contents.

20. (Currently Amended) The reception device according to claim 3, wherein the ~~reconstruction portion~~ reconstructor determines whether the received sub contents data include an output form ID which corresponds to an output form ID stored in a reference table of the reception device, if the sub contents data includes an output form ID that corresponds to an output form ID stored in the reference table, the reception device presents the output contents in an output form corresponding to the stored output form

ID, and if the sub contents data does not include an output form ID that corresponds to an output form ID stored in the reference table, the reception device presents the output contents based upon a script included in the sub contents data.

21. (New) The reception device according to claim 3, wherein controlling reconstruction further comprises:

extracting defining information from the main contents data and storing the defining information in a memory when switching from display of main contents data to display of sub contents data; and

reconstructing the main contents data stored in memory based on the stored defining information, when the determined output form is a form for switching from display of sub contents data to display of main contents data.

22. (New) The reception device according to claim 21, wherein the defining information is time-stamp data.

23. (New) The reception device according to claim 3, wherein the output form includes a display position of the sub contents data.

24. (New) The reception device according to claim 3, wherein the output form includes information indicating whether the sub contents data are outputted.

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25. (New) The reception device according to claim 3, wherein the output form includes an output time of the sub contents data.

26. (New) The reception device according to claim 3, wherein the output form includes an output condition of the sub contents data.